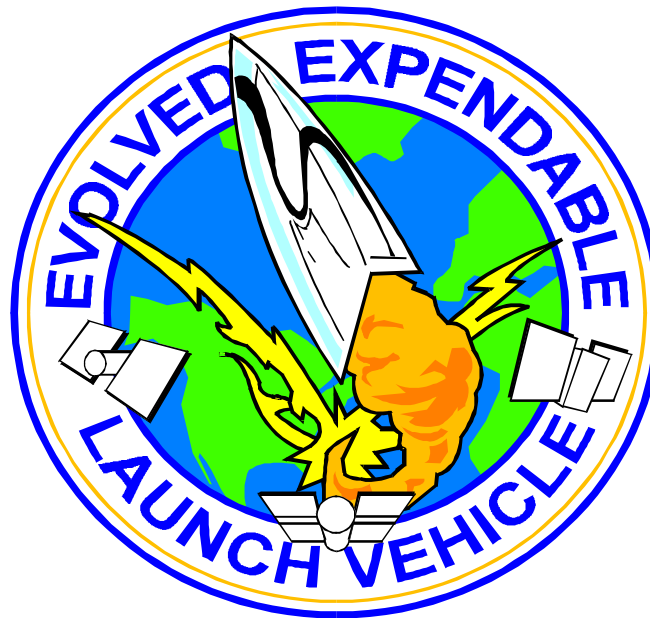


Mission Integration Working Group

4-Party ICD



Affordability Through Innovation

LtCol Roger Odle
Chief, EELV Mission Integration

30 Jun 2000

What is an ICD?

- **ICD - Interface Control Document**
- **Identifies and controls the physical, functional, environmental, operational and/or procedural interface between SV & LV**
- **Defines methods of verification between contractors which effect the design and operation of the flight hardware and interfacing ground based elements for the SV/LV systems**
- **Developed during mission integration process**
- **After approval and contractual implementation, the ICD provides configuration control of the interface by documenting all current agreements.**
- **Serves as a basis for contractual control of the defined SV/LV interfaces.**

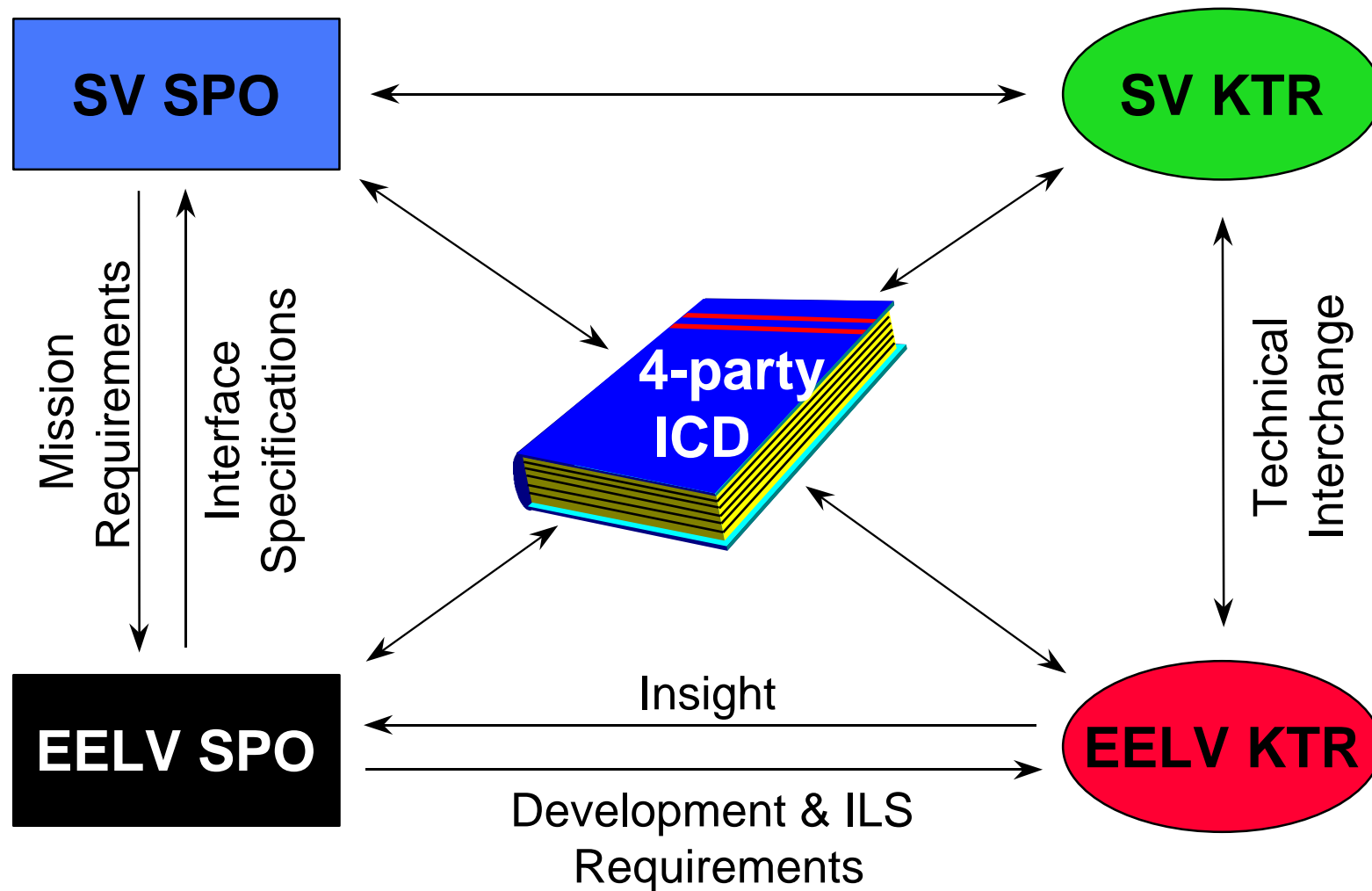
SV Requirements

- **SV requirements usually documented in an IRS or IRD**
 - **IRS - Interface Requirements Specification**
 - **IRD - Interface Requirements Documents**
- **SVs should use SIS as baseline for IRS/IRD development**
 - **Minimizes integration complexity and cost**
 - **Ensures dual compatibility with both LVs**
- **The ICD is developed from the IRS/IRD**
 - **Reflects a negotiated meeting of IRS/IRD requirements**
 - **States the LV capabilities**

EELV ICD Requirements

- **EELV contractors develop and maintain the ICD as a standard service as part of CLIN 0102**
 - **Activated at L-24 months**
 - **Early ICD development via CLIN 0103**
- **Final ICD will be a four party signature document**
 - **LV SPO, SV SPO, LV contractor, SV contractor**
 - **LV and SV SPOs will have insight into ICD development during integration**
 - **Insure EELV requirements (SPRD, SIS, MU annex) met**

ICD Development



ICD Signoff Process & Checklist

✓	Time	Action	MVI	@	MVB / MVL	MVP	MVK	SV SPO	SV KTR	EELV KTR	EELV SPD
	-	Develop ICD	R	R				R	A	A	
	-	Technical Concurrence (ICD Baseline)							A	A	
	-	Sign 2-party ICD						A	A		
	12 days	Draft Technical Evaluation Doc. - Ensure ICD translate SIS, SOW Requirements	A	A	R			R			
	3 days	Distribute ICD Technical Evaluation Doc. For review	A	C	C	C	C	C			
	5 days	Compile package to include ICD, technical evaluations (MVI, Aerospace, SV SPO) plus comments	A	C				C			
	5 days	Schedule Review Board for MV and SV SPO, Aerospace concurrence	A								
	1 day	Conduct ICD Review Board	A	C	C	C	C	C			C
	-	ICD Signed by SPDs						A			A
	5 days	ICD on contract					A				

A - Action

C - Coordinate

R - Review

ICD Change Process

